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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/643,266	08/19/2003	Phillip C. Harris	2003-IP-009898U1	4630
75	90 03/20/2006		EXAMINER	
Robert A. Ken	ıt		SMITH, MA	ATTHEW J
Halliburton Ene	rgy Services			
2600 South 2nd Street			ART UNIT	PAPER NUMBER
Duncan, OK 73536			3672	
			DATE MAILED, 0200000	

DATE MAILED: 03/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

··· — — —		Application No.	Applicant(s)
		10/643,266	HARRIS ET AL.
	Office Action Summary	Examiner	Art Unit
		Matthew J. Smith	3672
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period or re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).
Status			
2a)□	Responsive to communication(s) filed on 24 Ja This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.	
Dienositi	on of Claims		
5)⊠ 6)⊠ 7)⊠ 8)□ Applicat i	Claim(s) <u>1-46</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) <u>21-23 and 44-46</u> is/are allowed. Claim(s) <u>1-4,6,8,12-20,24-29,31 and 35-43</u> is/a Claim(s) <u>5,7,9-11,30 and 32-34</u> is/are objected Claim(s) are subject to restriction and/o fon Papers The specification is objected to by the Examine	wn from consideration. are rejected. It to. It election requirement. are.	
,	The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority u	ınder 35 U.S.C. § 119		
a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
2) D Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

Art Unit: 3672

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 6, 8, 12-20, 24-29, 31, and 35-43 are rejected under 35 U.S.C. 103(a) as being obvious over Funkhouser (6986391) in view of Chatterji et al. (6454008).

The applied reference has a common inventor (Funkhouser) and assignee (Halliburton) with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by: (1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not an invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an oath or declaration under 37 CFR 1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). This rejection might also be overcome by showing that the reference is disqualified under 35 U.S.C.

103(c) as prior art in a rejection under 35 U.S.C. 103(a). See MPEP § 706.02(I)(1) and § 706.02(I)(2).

Funkhouser et al. disclose the claimed terpolymer, acrylamide, acrylic acid or salt, viscosity breaker, cross-linking agent, and buffer but not a foaming agent or nitrogen.

Chatterji et al. present a fracturing fluid with a foaming agent using nitrogen in a compound including 2-acrylomido-2methylpropance sulfonic acid.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to use a foaming agent with the Funkhouser et al. fracturing fluid, as presented by Chatterji et al., in order to prevent excessive hydrostatic pressure (Chatterji et al., col. 1, lines 45-46).

Allowable Subject Matter

Claims 21-23 and 44-46 are allowed.

Claims 5, 7, 9-11, 30, and 32-34 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Response to Arguments

Applicant's arguments, see page 3, filed 24 January 2006, with respect to the rejection of claims 1, 2, 6-8, 12, 13, 24, 25, 29-31, 35, and 36 under 35 U.S.C. 103 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new rejection is made in view of Chatterji et al. The examiner contends this reference shows it is well known to add a foaming agent to a fracturing fluid.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew J. Smith whose telephone number is 571-272-7034. The examiner can normally be reached on T-F, 9-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David J. Bagnell can be reached on 571-272-6999. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

avid Bagnell

Supervisory Patent Examiner

Art Unit 3672

MJS *MJ* 5 14 March 2006